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Bougueleret, Lydie  
Chumakov, Ilya

<120> Polymorphic Markers of Prostate Carcinoma Tumor Antigen-1 (PCTA-1)

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Val	Leu	Lys	Asp	Lys	Phe	Gln	Val	Ala	Val	Asn	Gly	Lys	His	Thr	Leu	
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Leu	Tyr	Gly	His	Arg	Ile	Gly	Pro	Glu	Lys	Ile	Asp	Thr	Leu	Gly	Ile	
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Tyr	Gly	Lys	Val	Asn	Ile	His	Ser	Ile	Gly	Phe	Ser	Phe	Ser	Ser	Asp	
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&lt;222&gt; 1013

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&lt;400&gt; 4

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taacctttaa atgaaacttg cctaaaatct taggtcatatc acagaagaga ctccaatcga      180
caagaagctg gaaaagaatg atg ttg tcc tta aac aac cta cag aat atc atc      233
                Met Leu Ser Leu Asn Asn Leu Gln Asn Ile Ile
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tat aac ccg gta atc ccg tat gtt ggc acc att ccc gat cag ctg gat      281
Tyr Asn Pro Val Ile Pro Tyr Val Gly Thr Ile Pro Asp Gln Leu Asp
                15           20           25
cct gga act ttg att gtg ata tgt ggg cat gtt cct agt gac gca gac      329
Pro Gly Thr Leu Ile Val Ile Cys Gly His Val Pro Ser Asp Ala Asp
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Arg Phe Gln Val Asp Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala
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gat gtg gcc ttt cat ttc aat cct cgt ttc aaa agg gcc gcc tgc att      425
Asp Val Ala Phe His Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile
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gtt tgc aat act ttg ata aat gaa aaa tgg gga cgg gaa gag atc acc      473
Val Cys Asn Thr Leu Ile Asn Glu Lys Trp Gly Arg Glu Glu Ile Thr
                80           85           90
tat gac acg cct ttc aaa aga gaa aag tct ttt gag atc gtg att atg      521
Tyr Asp Thr Pro Phe Lys Arg Glu Lys Ser Phe Glu Ile Val Ile Met
                95           100           105
gtg cta aag gac aaa ttc cag gtg gct gta aat gga aaa cat act ctg      569
Val Leu Lys Asp Lys Phe Gln Val Ala Val Asn Gly Lys His Thr Leu
                110           115           120
ctc tat ggc cac agg atc ggc cca gag aaa ata gac act ctg ggc att      617
Leu Tyr Gly His Arg Ile Gly Pro Glu Lys Ile Asp Thr Leu Gly Ile
                125           130           135
tat ggc aaa gtg aat att cac tca att ggt ttt agc ttc agc tcg gac      665
Tyr Gly Lys Val Asn Ile His Ser Ile Gly Phe Ser Phe Ser Ser Asp
                140           145           150           155
tta caa agt acc caa gca tct agt ctg gaa ctg aca gag ata agt aga      713
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Glu Asn Val Pro Lys Ser Gly Thr Pro Gln Leu Ser Leu Pro Phe Ala
                175           180           185
gca agg ttg aac acc ccc atg ggc cct gga cga act gtc gtc gtt aaa      809
Ala Arg Leu Asn Thr Pro Met Gly Pro Gly Arg Thr Val Val Val Lys
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Gly Glu Val Asn Ala Asn Ala Lys Ser Phe Asn Val Asp Leu Leu Ala
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gga aaa tca aag gat att gct cta cac ttg aac cca cgc ctg aat att      905
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Lys Ala Phe Val Arg Asn Ser Phe Leu Gln Glu Ser Trp Gly Glu Glu
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Asn Gln Lys Ser Glu Met Lys His Ile Asn Lys Ala Gly Gly Ala Thr	
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Asp Arg Leu Pro Pro His Arg Ser Phe Arg Leu His Ser Leu Pro Thr	
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Gly Leu His Trp Lys Leu Asn Lys Asn Pro Gln Asn Ser Asn Phe Leu	
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Gly Met Pro Pro Leu *	
365	
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&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; VARIANT

&lt;222&gt; 18

&lt;223&gt; 5-2-162 : polymorphic amino acid Tyr or Phe

&lt;221&gt; VARIANT

&lt;222&gt; 35

&lt;223&gt; 5-2-213 : polymorphic amino acid Cys or Arg

&lt;221&gt; VARIANT

&lt;222&gt; 55

&lt;223&gt; 5-3-84 : polymorphic amino acid Val or Met

&lt;221&gt; VARIANT

&lt;222&gt; 183

&lt;223&gt; 5-7-195 : polymorphic amino acid Ser or Arg

&lt;400&gt; 5

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Val Ile Cys Gly His Val Pro Ser Asp Ala Asp Arg Phe Gln Val Asp
          35           40           45
Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala Asp Val Ala Phe His
          50           55           60
Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile Val Cys Asn Thr Leu
65           70           75           80
Ile Asn Glu Lys Trp Gly Arg Glu Glu Ile Thr Tyr Asp Thr Pro Phe
          85           90           95
Lys Arg Glu Lys Ser Phe Glu Ile Val Ile Met Val Leu Lys Asp Lys
          100          105          110
Phe Gln Val Ala Val Asn Gly Lys His Thr Leu Leu Tyr Gly His Arg
          115          120          125
Ile Gly Pro Glu Lys Ile Asp Thr Leu Gly Ile Tyr Gly Lys Val Asn
          130          135          140
Ile His Ser Ile Gly Phe Ser Phe Ser Ser Asp Leu Gln Ser Thr Gln
145          150          155          160
Ala Ser Ser Leu Glu Leu Thr Glu Ile Ser Arg Glu Asn Val Pro Lys
          165          170          175
Ser Gly Thr Pro Gln Leu Ser Leu Pro Phe Ala Ala Arg Leu Asn Thr
          180          185          190
Pro Met Gly Pro Gly Arg Thr Val Val Val Lys Gly Glu Val Asn Ala
          195          200          205
Asn Ala Lys Ser Phe Asn Val Asp Leu Leu Ala Gly Lys Ser Lys Asp
          210          215          220
Ile Ala Leu His Leu Asn Pro Arg Leu Asn Ile Lys Ala Phe Val Arg
225          230          235          240
Asn Ser Phe Leu Gln Glu Ser Trp Gly Glu Glu Arg Asn Ile Thr
          245          250          255
Ser Phe Pro Phe Ser Pro Gly Met Tyr Phe Glu Met Ile Ile Tyr Cys
          260          265          270
Asp Val Arg Glu Phe Lys Val Ala Val Asn Gly Val His Ser Leu Glu
          275          280          285
Tyr Lys His Arg Phe Lys Glu Leu Ser Ser Ile Asp Thr Leu Glu Ile
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Asn Gly Asp Ile His Leu Leu Glu Val Arg Ser Trp
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&lt;210&gt; 6

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

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 <221> VARIANT  
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 <223> 5-2-213 : polymorphic amino acid Cys or Arg  
  
 <221> VARIANT  
 <222> 55  
 <223> 5-3-84 : polymorphic amino acid Val or Met  
  
 <221> VARIANT  
 <222> 204  
 <223> 5-202-95 : polymorphic amino acid Asp or Tyr  
  
 <221> VARIANT  
 <222> 211  
 <223> 5-202-117 : polymorphic amino acid Leu or Stop  
  
 <221> VARIANT  
 <222> 225  
 <223> 5-7-195 : polymorphic amino acid Ser or Arg

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 Val Ile Cys Gly His Val Pro Ser Asp Ala Asp Arg Phe Gln Val Asp  
 35 40 45  
 Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala Asp Val Ala Phe His  
 50 55 60  
 Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile Val Cys Asn Thr Leu  
 65 70 75 80  
 Ile Asn Glu Lys Trp Gly Arg Glu Glu Ile Thr Tyr Asp Thr Pro Phe  
 85 90 95  
 Lys Arg Glu Lys Ser Phe Glu Ile Val Ile Met Val Leu Lys Asp Lys  
 100 105 110  
 Phe Gln Val Ala Val Asn Gly Lys His Thr Leu Leu Tyr Gly His Arg  
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 130 135 140  
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 Ala Ser Ser Leu Glu Leu Thr Glu Ile Ser Arg Glu Asn Val Pro Lys  
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 Ser Gly Thr Pro Gln Leu Pro Ser Asn Arg Gly Gly Asp Ile Ser Lys  
 180 185 190  
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 195 200 205  
 His Thr Leu Thr Cys Thr Lys Ile Pro Pro Met Asn Tyr Val Ser Lys  
 210 215 220  
 Ser Leu Pro Phe Ala Ala Arg Leu Asn Thr Pro Met Gly Pro Gly Arg  
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Thr Val Val Val Lys Gly Glu Val Asn Ala Asn Ala Lys Ser Phe Asn  
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 Glu Leu Ser Ser Ile Asp Thr Leu Glu Ile Asn Gly Asp Ile His Leu  
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 <213> Homo sapiens

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 <223> 5-2-162 : polymorphic amino acid Tyr or Phe

<221> VARIANT  
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 <223> 5-2-213 : polymorphic amino acid Cys or Arg

<221> VARIANT  
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 <223> 5-3-84 : polymorphic amino acid Val or Met

<221> VARIANT  
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 <223> 5-7-195 : polymorphic amino acid Ser or Arg

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 Met Lys His Ile Asn Lys Ala Gly Gly Ala Thr Asp Arg Leu Pro Pro  
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&lt;210&gt; 8

&lt;211&gt; 1738

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 8

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 Val Ile Arg Gly His Val Pro Lys Asp Ser Glu Arg Phe Gln Val Asp  
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 Phe Gln Leu Gly Asn Ser Leu Lys Pro Arg Ala Asp Val Ala Phe His  
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 Phe Asn Pro Arg Phe Lys Arg Ser Ser Cys Ile Val Cys Asn Thr Leu  
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 aca cag gag aag tgg ggc tgg gag gag atc acc tac gac atg ccc ttc 408  
 Thr Gln Glu Lys Trp Gly Trp Glu Glu Ile Thr Tyr Asp Met Pro Phe



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<212> PRT  
<213> Mus musculus

<400> 9

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Val Ile Arg Gly His Val Pro Lys Asp Ser Glu Arg Phe Gln Val Asp
      35      40      45
Phe Gln Leu Gly Asn Ser Leu Lys Pro Arg Ala Asp Val Ala Phe His
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Phe Asn Pro Arg Phe Lys Arg Ser Ser Cys Ile Val Cys Asn Thr Leu
65      70      75      80
Thr Gln Glu Lys Trp Gly Trp Glu Glu Ile Thr Tyr Asp Met Pro Phe
      85      90      95
Arg Lys Glu Lys Ser Phe Glu Ile Val Phe Met Val Leu Lys Asn Lys
      100     105     110
Phe Gln Val Ala Val Asn Gly Arg His Val Leu Leu Tyr Ala His Arg
      115     120     125
Ile Ser Pro Glu Gln Ile Asp Thr Val Gly Ile Tyr Gly Lys Val Asn
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Ile His Ser Ile Gly Phe Arg Phe Ser Ser Asp Leu Gln Ser Met Glu
145     150     155     160
Thr Ser Ala Leu Gly Leu Thr Gln Ile Asn Arg Glu Asn Ile Gln Lys
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Pro Gly Lys Leu Gln Leu Ser Leu Pro Phe Glu Ala Arg Leu Asn Ala
      180     185     190
Ser Met Gly Pro Gly Arg Thr Val Val Ile Lys Gly Glu Val Asn Thr
      195     200     205
Asn Ala Arg Ser Phe Asn Val Asp Leu Val Ala Gly Lys Thr Arg Asp
      210     215     220
Ile Ala Leu His Leu Asn Pro Arg Leu Asn Val Lys Ala Phe Val Arg
225     230     235     240
Asn Ser Phe Leu Gln Asp Ala Trp Gly Glu Glu Glu Arg Asn Ile Thr
      245     250     255
Cys Phe Pro Phe Ser Ser Gly Met Tyr Phe Glu Met Ile Ile Tyr Cys
      260     265     270
Asp Val Arg Glu Phe Lys Val Ala Ile Asn Gly Val His Ser Leu Glu
      275     280     285
Tyr Lys His Arg Phe Lys Asp Leu Ser Ser Ile Asp Thr Leu Ser Val
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18

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&lt;210&gt; 13

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(132)

&lt;223&gt; amino acid sequence of leg2

&lt;400&gt; 13

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Met Thr Gly Glu Leu Glu Val Lys Asn Met Asp Met Lys Pro Gly Ser
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Thr Leu Lys Ile Thr Gly Ser Ile Ala Asp Gly Thr Asp Gly Phe Val
20          25          30
Ile Asn Leu Gly Gln Gly Thr Asp Lys Leu Asn Leu His Phe Asn Pro
35          40          45
Arg Phe Ser Glu Ser Thr Ile Val Cys Asn Ser Leu Asp Gly Ser Asn
50          55          60
Trp Gly Gln Glu Gln Arg Glu Asp His Leu Cys Phe Ser Pro Gly Ser
65          70          75          80
Glu Val Lys Phe Thr Val Thr Phe Glu Ser Asp Lys Phe Lys Val Lys
85          90          95
Leu Pro Asp Gly His Glu Leu Thr Phe Pro Asn Arg Leu Gly His Ser
100         105         110
His Leu Ser Tyr Leu Ser Val Arg Gly Gly Phe Asn Met Ser Ser Phe
115         120         125
Lys Leu Lys Glu
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&lt;210&gt; 14

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<213> Homo sapiens

<220>  
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Asn Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His Phe Asn Pro Arg  
35 40 45  
Phe Asn Ala His Gly Asp Ala Asn Thr Ile Val Cys Asn Ser Lys Asp  
50 55 60  
Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu Ala Val Phe Pro Phe Gln  
65 70 75 80  
Pro Gly Ser Val Ala Glu Val Cys Ile Thr Phe Asp Gln Ala Asn Leu  
85 90 95  
Thr Val Lys Leu Pro Asp Gly Tyr Glu Phe Lys Phe Pro Asn Arg Leu  
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Lys Cys Val Ala Phe Asp  
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<211> 316  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (1)..(316)  
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20 25 30  
Val Ile Cys Gly His Val Pro Ser Asp Ala Asp Arg Phe Gln Val Asp  
35 40 45  
Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala Asp Val Ala Phe His  
50 55 60  
Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile Val Cys Asn Thr Leu  
65 70 75 80  
Ile Asn Glu Lys Trp Gly Arg Glu Glu Ile Thr Tyr Asp Thr Pro Phe  
85 90 95  
Lys Arg Glu Lys Ser Phe Glu Ile Val Ile Met Val Leu Lys Asp Lys  
100 105 110  
Phe Gln Val Ala Val Asn Gly Lys His Thr Leu Leu Tyr Gly His Arg  
115 120 125

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Ile Gly Pro Glu Lys Ile Asp Thr Leu Gly Ile Tyr Gly Lys Val Asn
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145      150      155      160
Ala Ser Ser Leu Glu Leu Thr Glu Ile Ser Arg Glu Asn Val Pro Lys
      165      170      175
Ser Gly Thr Pro Gln Leu Ser Leu Pro Phe Ala Ala Arg Leu Asn Thr
      180      185      190
Pro Met Gly Pro Gly Arg Thr Val Val Val Lys Gly Glu Val Asn Ala
      195      200      205
Asn Ala Lys Ser Phe Asn Val Asp Leu Leu Ala Gly Lys Ser Lys Asp
      210      215      220
Ile Ala Leu His Leu Asn Pro Arg Leu Asn Ile Lys Ala Phe Val Arg
225      230      235      240
Asn Ser Phe Leu Gln Glu Ser Trp Gly Glu Glu Glu Arg Asn Ile Thr
      245      250      255
Ser Phe Pro Phe Ser Pro Gly Met Tyr Phe Glu Met Ile Ile Tyr Cys
      260      265      270
Asp Val Arg Glu Phe Lys Val Ala Val Asn Gly Val His Ser Leu Glu
      275      280      285
Tyr Lys His Arg Phe Lys Glu Leu Ser Ser Ile Asp Thr Leu Glu Ile
      290      295      300
Asn Gly Asp Ile His Leu Leu Glu Val Arg Ser Trp
305      310      315

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&lt;210&gt; 16

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(358)

&lt;223&gt; amino acid sequence of PCTA.var

&lt;400&gt; 16

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      20      25      30
Val Ile Cys Gly His Val Pro Ser Asp Ala Asp Arg Phe Gln Val Asp
      35      40      45
Leu Gln Asn Gly Ser Ser Val Lys Pro Arg Ala Asp Val Ala Phe His
      50      55      60
Phe Asn Pro Arg Phe Lys Arg Ala Gly Cys Ile Val Cys Asn Thr Leu
65      70      75      80
Ile Asn Glu Lys Trp Gly Arg Glu Glu Ile Thr Tyr Asp Thr Pro Phe
      85      90      95
Lys Arg Glu Lys Ser Phe Glu Ile Val Ile Met Val Leu Lys Asp Lys
      100      105      110
Phe Gln Val Ala Val Asn Gly Lys His Thr Leu Leu Tyr Gly His Arg
      115      120      125
Ile Gly Pro Glu Lys Ile Asp Thr Leu Gly Ile Tyr Gly Lys Val Asn
      130      135      140
Ile His Ser Ile Gly Phe Ser Phe Ser Ser Asp Leu Gln Ser Thr Gln
145      150      155      160

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Ala Ser Ser Leu Glu Leu Thr Glu Ile Ser Arg Glu Asn Val Pro Lys  
165 170 175  
Ser Gly Thr Pro Gln Leu Pro Ser Asn Arg Gly Gly Asp Ile Ser Lys  
180 185 190  
Ile Ala Pro Arg Thr Val Tyr Thr Lys Ser Lys Asp Ser Thr Val Asn  
195 200 205  
His Thr Leu Thr Cys Thr Lys Ile Pro Pro Met Asn Tyr Val Ser Lys  
210 215 220  
Ser Leu Pro Phe Ala Ala Arg Leu Asn Thr Pro Met Gly Pro Gly Arg  
225 230 235 240  
Thr Val Val Val Lys Gly Glu Val Asn Ala Asn Ala Lys Ser Phe Asn  
245 250 255  
Val Asp Leu Leu Ala Gly Lys Ser Lys Asp Ile Ala Leu His Leu Asn  
260 265 270  
Pro Arg Leu Asn Ile Lys Ala Phe Val Arg Asn Ser Phe Leu Gln Glu  
275 280 285  
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290 295 300  
Gly Met Tyr Phe Glu Met Ile Ile Tyr Cys Asp Val Arg Glu Phe Lys  
305 310 315 320  
Val Ala Val Asn Gly Val His Ser Leu Glu Tyr Lys His Arg Phe Lys  
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Leu Glu Val Arg Ser Trp  
355

<210> 17  
<211> 315  
<212> PRT  
<213> Mus musculus

<220>  
<221> MISC\_FEATURE  
<222> (1)..(315)  
<223> amino acid sequence of PCTA.mus

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Val Ile Arg Gly His Val Pro Lys Asp Ser Glu Arg Phe Gln Val Asp  
35 40 45  
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50 55 60  
Phe Asn Pro Arg Phe Lys Arg Ser Ser Cys Ile Val Cys Asn Thr Leu  
65 70 75 80  
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85 90 95  
Arg Lys Glu Lys Ser Phe Glu Ile Val Phe Met Val Leu Lys Asn Lys  
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Phe Gln Val Ala Val Asn Gly Arg His Val Leu Leu Tyr Ala His Arg  
115 120 125  
Ile Ser Pro Glu Gln Ile Asp Thr Val Gly Ile Tyr Gly Lys Val Asn  
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Ile His Ser Ile Gly Phe Arg Phe Ser Ser Asp Leu Gln Ser Met Glu
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Thr Ser Ala Leu Gly Leu Thr Gln Ile Asn Arg Glu Asn Ile Gln Lys
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Pro Gly Lys Leu Gln Leu Ser Leu Pro Phe Glu Ala Arg Leu Asn Ala
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Ser Met Gly Pro Gly Arg Thr Val Val Ile Lys Gly Glu Val Asn Thr
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Lys His Arg Phe Lys Asp Leu Ser Ser Ile Asp Thr Leu Ser Val Asp
          290          295          300
Gly Asp Ile Arg Leu Leu Asp Val Arg Ser Trp
305          310          315

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&lt;210&gt; 18

&lt;211&gt; 355

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(355)

&lt;223&gt; amino acid sequence of gal9-1

&lt;400&gt; 18

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Phe Ser Gly Thr Ile Gln Gly Gly Leu Gln Asp Gly Leu Gln Ile Thr
          20          25          30
Val Asn Gly Thr Val Leu Ser Ser Gly Thr Arg Phe Ala Val Asn
          35          40          45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
          50          55          60
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
65          70          75          80
Ser Trp Gly Pro Glu Glu Arg Lys Thr His Met Pro Phe Gln Lys Gly
          85          90          95
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
          100          105          110
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
          115          120          125
His Arg Val Asp Thr Ile Ser Val Asn Gly Ser Val Gln Leu Ser Tyr
          130          135          140
Ile Ser Phe Gln Asn Pro Arg Thr Val Pro Val Gln Pro Ala Phe Ser
145          150          155          160
Thr Val Pro Phe Ser Gln Pro Val Cys Phe Pro Pro Arg Pro Arg Gly
          165          170          175

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```

Arg Arg Gln Lys Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
      180      185      190
Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
      195      200      205
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
      210      215      220
Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser
225      230      235      240
Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile
      245      250      255
Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Pro Arg Phe
      260      265      270
Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly
      275      280      285
Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln
      290      295      300
Ser Phe Ser Val Trp Ile Leu Cys Glu Ala His Cys Leu Lys Val Ala
305      310      315      320
Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu
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Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His
      340      345      350
Val Gln Thr
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<223> amino acid sequence of gal

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Val Asn Gly Thr Val Leu Ser Ser Ser Gly Thr Arg Phe Ala Val Asn
      35      40      45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
      50      55      60
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
65      70      75      80
Ser Trp Gly Pro Glu Glu Arg Arg Thr His Met Pro Phe Gln Lys Gly
      85      90      95
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
      100      105      110
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
      115      120      125
His Arg Val Asp Thr Ile Phe Val Asn Gly Ser Val Gln Leu Ser Tyr
      130      135      140
Ile Ser Phe Gln Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
145      150      155      160

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```

Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
      165      170      175
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
      180      185      190
Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser
      195      200      205
Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile
      210      215      220
Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Leu Arg Phe
225      230      235      240
Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly
      245      250      255
Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln
      260      265      270
Ser Phe Ser Val Trp Ile Leu Cys Gly Ala His Cys Leu Lys Val Ala
      275      280      285
Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu
      290      295      300
Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His
305      310      315      320
Val Gln Thr

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&lt;210&gt; 20

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(135)

&lt;223&gt; amino acid sequence of leg7

&lt;400&gt; 20

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Ser Asn Val Pro His Lys Ser Ser Leu Pro Glu Gly Ile Arg Pro Gly
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Thr Val Leu Arg Ile Arg Gly Leu Val Pro Pro Asn Ala Ser Arg Phe
      20      25      30
His Val Asn Leu Leu Cys Gly Glu Gln Gly Ser Asp Ala Ala Leu
      35      40      45
His Phe Asn Pro Arg Leu Asp Thr Ser Glu Val Val Phe Asn Ser Lys
      50      55      60
Glu Gln Gly Ser Trp Gly Arg Glu Glu Arg Gly Pro Gly Val Pro Phe
65      70      75      80
Gln Arg Gly Gln Pro Phe Glu Val Leu Ile Ile Ala Ser Asp Asp Gly
      85      90      95
Phe Lys Ala Val Val Gly Asp Ala Gln Tyr His His Phe Arg His Arg
      100      105      110
Leu Pro Leu Ala Arg Val Arg Leu Val Glu Val Gly Gly Asp Val Gln
      115      120      125
Leu Asp Ser Val Arg Ile Phe
      130      135

```

&lt;210&gt; 21

&lt;211&gt; 323

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(323)

&lt;223&gt; amino acid sequence of gal4

&lt;400&gt; 21

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Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser
      20      25      30
Val Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val
      35      40      45
Asn Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe
      50      55      60
Asn Pro Arg Phe Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln
65      70      75      80
Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys
      85      90      95
Lys Gly Ala Ala Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr
      100     105     110
Lys Val Val Val Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu
      115     120     125
Pro Leu Gln Met Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu
      130     135     140
Gln Ser Ile Asn Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro
145     150     155     160
Pro Met Met Pro Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu
      165     170     175
Asn Ser Leu Pro Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val
      180     185     190
Pro Tyr Phe Gly Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile
      195     200     205
Ile Ile Lys Gly Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn
      210     215     220
Phe Lys Val Gly Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg
225     230     235     240
Met Gly Asn Gly Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp
      245     250     255
Gly Ser Glu Glu Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln
      260     265     270
Phe Phe Asp Leu Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr
      275     280     285
Ala Asn Gly Gln His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe
      290     295     300
Gln Arg Val Asp Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr
305     310     315     320
Val Gln Ile

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&lt;210&gt; 22

&lt;211&gt; 466

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

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195 200 205  
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